Clean Room Pneumatic Tube Delivery

Datasheet

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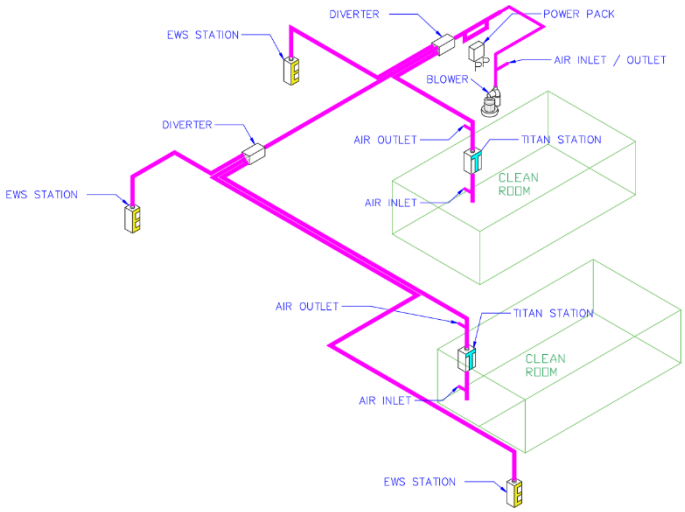


Delivering samples or other small items by foot to a clean room in a processing plant poses several problems with infection control protocols and can also be a time consuming, repetitive walk to and from the sampling area to the sterile area crossing infection control borders.

Using a pneumatic air tube system can eliminate the repeated task and deliver the samples or other articles without compromising the sterile clean room integrity. How? you may ask, can a pressurised air tube system do this?

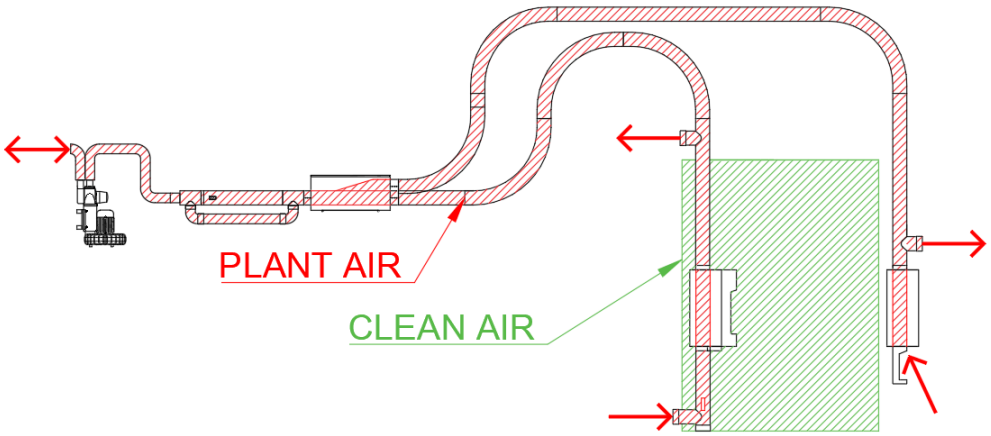
The diagram above shows a single zone pneumatic tube system with three stations in the non-sterile production areas, which send samples to both clean rooms. The blower is located in a plant room.

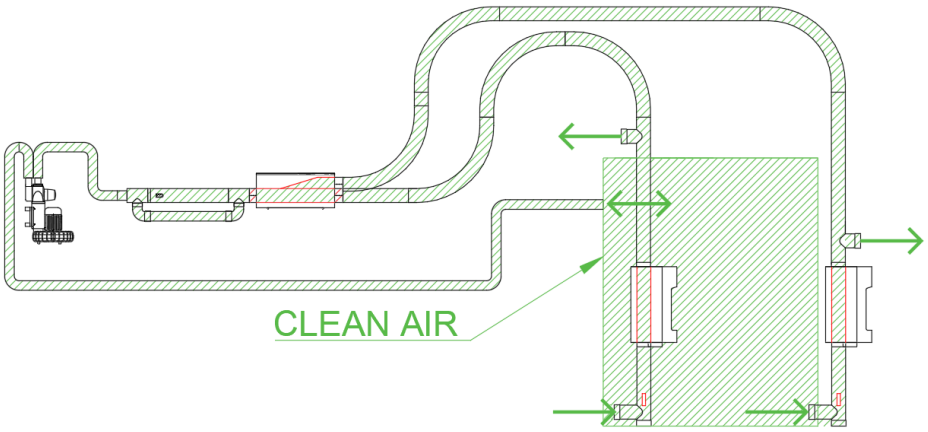
We can either use a very simple system that neither expels air into nor uses air from, the clean room; both of which could affect the positive pressurisation of the clean module.

Carriers are delivered on gravity from the unique mechanism of the Titan or Giga station installed in the clean room. Plant air is contained within the pneumatic tube system at all times.

The positive pressure of the clean room prevents any residual plant air leakage when the carrier is delivered on gravity or loaded into the clean room station.

Enclosed Plant Air System





Enclosed Clean Air System

Alternatively, we can design a fully enclosed clean air system with through type stations only and tubed in clean air. Other variations are available including fine filtering air.

Every Clean Room pneumatic tube delivery system is designed specifically for the application

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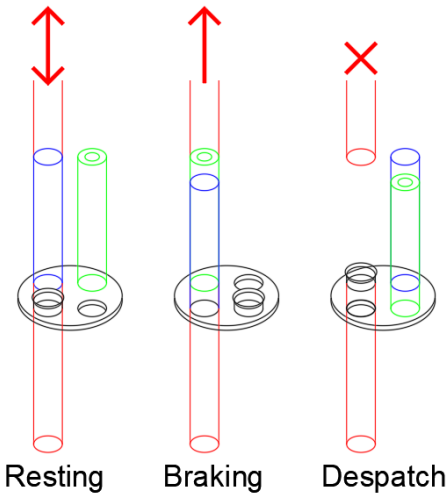
Titan Station



The unique rotating design of the Titan Station is ideal for clean room application as the tube is continued through the mechanism therefore air is contained.

In the resting position, the connecting tube (blue) allows carriers to pass through the station contained on either pressure or suction.

In the braking position, the holding tube (green) holds the carrier inside the cup end on suction only and revolves the barrel to the despatch position.

Despatch either from the holding tube on delivery or from the insertion funnel on sending is air free gravity.

Available Systems, Tube Size, Stations and Carriers

For clean room applications, the most popular system is the computer-controlled AC3000 and tube diameters are usually 110 or 160mm. Carriers are available from 50mm to 315mm in a variety of models and colours, what justifies the choice of system, tube size and carriers is simply the size of the package which needs to be transported.

A complete choice of alternative stations is available.

The choice of system is from a simple control panel to sophisticated computer-controlled, windows-based software with diagnostics and statistical analysis, real-time graphic and RFID tracking and full transport traceability.

The choice is yours, so if you are interested in streamlining a repetitive sample or small package delivery process to and from a Clean Room environment, aerocom will provide, a free, no obligation survey and advice report. We offer solutions to save your business time and money.

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